GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:7306
ANSWERED ON:13.05.2005
SETTING UP OF HYDRO POWER PROJECTS
Khan Shri Mohammad Tahir;Kushwaha Shri Narendra Kumar

Will the Minister of POWER be pleased to state:

(a) whether the Central Electricity Authority has completed the preliminary study of identification for setting up all the hydro power projects in future;

(b) if so, the details of projects evaluated so far;

(c) the number of projects where work has started; and

(d) the number of projects with installed capacity of more than 500 MW?

Answer

THE MINISTER OF POWER(SHRI P.M. SAYEED)

(a) & (b) : The Re-assessment Studies of hydro-electric potential of the country, completed by Central Electricity Authority in 1987, had placed the economically exploitable hydro power potential at about 84,044 MW at 60% load factor. When fully developed, it would result into an aggregate installed capacity of about 1,48,701 MW. A total of 845 hydro-electric schemes were identified in various basins.

The Central Electricity Authority (CEA) had conducted Ranking Studies in 2001-02 in which 399 schemes aggregating to an installed capacity of 1,06,910 MW were ranked into 3 categories viz. A, B and C for fixing their inter-se priority on the basis of weightage criteria of various aspects involved in the development of hydro schemes. The details of these schemes are given in Annexure-I.

Based on the Ranking Studies, 50,000 MW Hydroelectric Initiative was launched by Government of India during 2003-04 under which Pre-Feasibility Reports (PFRs) of 162 schemes located in 16 States have been prepared. The details of these 162 schemes are given in Annexure-II.

(c) : At present 43 projects with installed capacity of 14,878 MW are under construction out of which 35 projects with installed capacity of 12,540 MW are from the Re-assessment Studies undertaken by Central Electricity Authority.

(d) : 10 Hydroelectric projects under construction have installed capacity of more than 500 MW each out of which 8 nos. of projects are from the Re-assessment Studies completed by Central Electricity Authority.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO.7306 TO BE ANSWERED IN THE LOK SABHA ON 13.05.2005.

Sl. No.	Name of Scheme	Probable Installed Capacity (MW)	Category
	ANDHRA PRADESH		
1	Dummagudem	360	A
2	Pulichintala	60	A
3	Singareddi	250	A
4	Pondugala	95	A
5	Polavaram	720	B
6	Inchampalli	975	B

7	Siang Lower	1700	A
8	Bhareli Lift Dam-II	330	A
9	Hegio	250	A
10	Bhareli Lift Dam-I	240	A
11	Emini	295	A
12	Amulin	235	A
13	Agoline	235	A
14	Kapak Leyak	195	A
15	Rigong	130	A
16	Badao	120	A
17	Pakke	120	A
18	Kurung Dam-II	115	A
19	Seba	105	A
20	Yepin	95	A
21	Milli	75	A
22	Chela	75	A
23	Par	65	A
24	Pengging	60	A
25	Tago-I	55	A
26	Para	55	A
27	Sepla	46	A
28	Lachung	41	A
29	Sape	38	A
30	Raigam	32	A
31	Nyepin	32	A
32	Gimliang	31	A
33	Rebby	30	A
34	Chanda	110	A
35	Tarang Warang	65	A
36	Hiya	41	A
37	Tidding-I	31	A
38	Kimi	535	B
39	Tato-II	360	B
40	Phanchung	90	B
41	Dardu	60	B
42	Hutong	950	B
43	Chomi	80	B
44	Oju-II	2580	B
45	Attunli	175	B
46	Naba	1290	B
47	Emra-II	870	B
48	Noa-Dihing	75	B
49	Tammu	55	B
50	Etalin	3045	B
51	Kalai	2550	B
52	Naying	495	B
53	Kameng	1100	B
54	Oju-I	1925	B
55	Niare	1405	B
56	Bichom-II	205	B
57	Pasar	32	B
58	Siang Middle	700	B
59	Emra-I	275	B
60	Minnying	195	B
61	Elango	180	B
62	Duimukh Storage	170	B
63	Mirak	160	B
64	Tato-I	80	B
65	Nazong	65	B
66	Pauk	50	B
67	Satuk	47	B
68	Gameng	37	B
69	Papu	160	B
70	Jaru	60	B
71	Pichang	31	B
72	Ranganadi St. II	180	B
73	Mathithing	40	B
74	Khuitam	29	B
75	Talong	150	B
76	Utung	110	B
77	Dibbin	95	B
78	Jarong	85	B
79	But	26	B
80	Hirong	180	B
81	Malinye	335	B
82	Heo	90	B
83	Yangman Stor.	60	B
84	Tenga	275	B
85	Mihumdon	145	B
86	Dibang	1000	B

87	Sissiri	222	B
88	Middle Subansiri	2000	B
89	Siang Upper	11000	B
90	Bichom Storage-I	190	B
91	Upper Subansiri	2500	B
92	Kurung Dam-I	200	B
93	Lower Subansiri	2000	C
94	Demwe	3000	C
95	Tipang	80	C

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CHATTISGARH

96	Kutru-I	150	A
97	Konta	65	A
98	Karri	70	A
99	Kharauli	46	A
100	Chitrakot(MATNAR)	38	B
101	Bhopalapatnam	1000	B
102	Kutru-II	150	B
103	Nugur-II	270	B
104	Nugur-I	160	B
105	Kotri	70	B
106	Pasal	55	B
107	Duniadhin	80	B
108	Joka	28	B

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HIMACHAL PRADESH

109	Budhil	70	A
110	Allain Duhangan	192	A
111	Karcham Wangtoo	1000	A
112	Rana Khad	29	A
113	Nakthan(Parbati-I)	420	A
114	Shongtong Karcham	780	A
115	Jangi Thopan	410	A
116	Gharopa	85	A
117	Luhri	425	A
118	Thopan Powari	650	A
119	Sainj-IV	27	A
120	Pangula Sanail	26	A
121	Rampur Nainjah	420	B
122	Sainj(Parbati-III)	520	B
123	Machhetri	60	B
124	Tirthan-III	26	B
125	Chulan	55	B
126	Khab-II	425	B
127	Tidong-II	90	B
128	Thibda	55	B
129	Gondhala	90	B
130	Chhota Dara	50	B
131	Khoksar	80	B
132	Bardang	145	B
133	Chhatru	140	B
134	Seli	150	B
135	Sach Khas	70	B
136	Kyurik	41	B
137	Udaipur	36	B
138	Tidong-I	90	B
139	Taiti-I	50	B
140	Jhalma	275	C
141	Raoli	715	C
142	Railing	155	C
143	Khab-I	1640	C

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JAMMU & KASHMIR

144	Seawa(St.II)	120	B
145	Chakothi(Uri-II)	280	B
146	Wangam	60	B
147	Leh	29	B
148	Pakhal Dul	1000	B
149	Parkhachik	60	B
150	Hatian	215	B
151	Chenari	475	B
152	Ratle	515	B
153	Naunut	1120	B

154	Karkit	190	B
155	Kanyunche	105	B
156	Dunadi	60	B
157	Chechesma	47	B
158	Khabru	30	B
159	Thambas	29	B
160	Dandal	26	B
161	Kwar	440	B
162	Kiari	28	B
163	Kiru	295	B
164	Khalsi	170	B
165	Takmaching	75	B
166	Shamnot	200	B
167	Nurla	65	B
168	Dumkhar	130	B
169	Tipri	36	B
170	Gangbal	55	B
171	Kesar	42	B
172	Nimu	180	B
173	Bichlari	75	B
174	Kiwa	37	B
175	Naga	29	B
176	Gunderman	120	C
177	Chalunka	45	C
178	Shuas	505	C
179	Achinthang	140	C
180	Bursar	1020	C
181	Batalik	235	C
182	Sho	215	C
183	Tillarchu	39	C
184	Barinaum	435	C
185	Tahamus	120	C
186	Paidar	46	C
187	Parfila	45	C
188	Karalpur(K-Ganga)	330	C

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KARNATAKA

189	Machchattu	35	A
190	Netravati	60	B
191	Kumardhari	49	B
192	Kali Nadi-III (Mardi)	175	B
193	Krishnapur(MAHADAYI)	210	B
194	Bennehole	55	B
195	Gangavali-II	105	B
196	Cauvery-PH I	235	B
197	Arkavathi	42	B
198	Cauvery PH IV	36	B
199	Jaldurg	270	B
200	Narayanpur	70	B
201	Cauvery-PH II	165	B
202	Cauvery PH III	90	B
203	Krishnarajasagar	55	C
204	Aghnashini	370	C
205	Barapole St-I	335	C

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KERALA

206	Pandiarpunnapuzha-II	70	B
207	Kuriarkutty	84	B
208	Barapole-II	85	B
209	Poringalkuthu (R.B)	65	B
210	Mananthavadi	240	B
211	Manali	36	C
212	Parinjankutty	120	C
213	Lower Sabarigiri	55	C
214	Kudal	47	C
215	Twin-Kallar MPP	65	C
216	Cholathipuzha	80	C
217	Silent Valley	130	C
218	Chalipuzha	50	C

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MADHYA
PRADESH

219	Basania	60	A
220	Dhurwara	28	A
221	Chorhat	55	A
222	Jahanpur	75	B

223	Burnher	28	B
246			
MAHARASHTRA			
224	Kumbhi-ii	27	A
225	Kunghara	115	A
226	Ghargaon	105	A
227	Samda	95	A
228	Kasari-I	215	B
229	Patharpunj	29	B
230	Kadvi	215	B
231	Kumbhi-i	170	B
232	Pathri	40	B
233	Sahasrakund-I	29	B
234	Hiranyakeshi-II	405	B
235	Pranhita	310	B
236	Wainganga	150	B
1905			
MANIPUR			
237	Irang	60	A
238	Khongnem Chakha-III	48	A
239	Laniye-II	27	A
240	Irang	75	B
241	Nungliban	85	B
242	Laniye-I	34	B
243	Khongnem Chakha-II	90	B
244	Tuivai	51	B
245	Pabaram Stor.	232	C
246	Sinjal	39	C
247	Tipaimukh	1500	C
2241			
MEGHALAYA			
248	Umlamphang	28	A
249	Sushen	150	A
250	Umjaut	85	B
251	Umduna	95	B
252	Kynshi-II	175	B
253	Mawhu	90	B
254	Umiam Umtru-V	27	B
255	Umiam Umtru-VI	145	B
256	Mawpat	55	B
257	Rangmaw	42	B
258	Nongnam	36	B
259	Nongmawlar	29	B
260	Nonglyngkien	47	B
261	Mawsyrpat	45	B
262	Nongkolait	180	B
263	Someshwari Dam	130	B
264	Amagam Storage	35	B
265	Mawblei Storage	100	B
266	Kynshi-I Stor.	295	C
267	Umngot Stor.	265	C
268	Mawthaba	70	C
269	Umngi Storage	35	C
2159			
MIZORAM			
270	Kolodyne St. I	120	B
271	Tuivawl	48	B
272	Deh	26	B
273	Kaldan Stor.	545	C
274	Lunglang Stor.	690	C
275	Boinu Stor.	635	C
2064			
NAGALAND			
276	Laruri	80	A
277	Sakhai-II	31	A
278	Zungki	48	B
279	Khuzami	32	B
280	Yangnyu Stor.	135	B
281	Rurrur	36	B
282	Dikhu Lift Dam	120	C

283	Jhanji storage	75	C
284	Tizu	365	C
285	Dikhu Dam P.H.	470	C

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ORISSA

286	Bhimkund	29	B
287	Hirakud St-III	408	B
288	Lodani	42	B
289	Baljori	393	B
290	Naraj	215	B
291	Tikkarpara	205	B
292	Lower Kolab	375	B

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SIKKIM

293	Teesta St. VI	360	A
294	Teesta St. IV	495	A
295	Lachung	30	A
296	Gompa	46	A
297	Talem	65	A
298	Kalep	41	A
299	Panan	230	A
300	Namlum	175	A
301	Dikchu	90	A
302	Teesta St. II	450	A
303	Rangyong	175	B
304	Serum	50	B
305	Lingza	160	B
306	Rukel	90	B
307	Yoksam	44	B
308	Mana	37	B
309	Rongni Storage	95	B
310	Jedang	185	B
311	Ringpi	160	B
312	Teesta St. I	320	B
313	Chhota Pathing	55	B

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UTTARANCHAL

314	Benakuli	40	A
315	Tapovan Chunar(TAPOVAN VISNUGADH)	485	A
316	Lata Tapovan	320	A
317	Tiuni	42	A
318	Bowala Nand Prayag	132	A
319	Vishnugad Pipalkoti	360	A
320	Bhela Tipri	100	A
321	Bhairon Ghati	60	A
322	Naitwar Mori	70	A
323	Sankri-Kunari	33	A
324	Pishanaitwar	30	A
325	Ugmir	28	A
326	Diulong-Sumangaon	26	A
327	Badri Nath	260	B
328	Nand Prayag Langasu	180	B
329	Khartoli Lumti Talli	105	B
330	Harsil Dam	350	B
331	Nelang	190	B
332	Jadh Ganga	110	B
333	Taluka-Saul	39	B
334	Karmali	190	B
335	Jamolna-Ghansyali	44	B
336	Gangotri	70	B
337	Tokh Gurupa	26	B
338	Kalika Dantu	140	B
339	Dhargoan-Jandarwali	29	B
340	Banoli Nalgam	55	B
341	Nakot Patlasu	43	B
342	Kuwa Ford	42	B
343	Tamak Lata	200	B
344	Devi Bagar Khartoli	40	B
345	Mandakini	36	B
346	Kotlibhel	1000	B

347	Mapang Bogudyar	185	B
348	Khet Tawaghat	225	B
349	Sela Urthing	165	B
350	Malkhet Dam	37	B
351	Girthi Ganga	34	B
352	Lohari Nag Thrang	520	B
353	Sirkari Bhyol Rus Bagar	145	B
354	Sobala Jhimrigoan	145	B
355	Niti Ganshali	32	B
356	Urthing Sobala	340	B
357	Sirkari Bhyol Bogudiyar	240	B
358	Chhanger Chal	145	B
359	Rishi Ganga II	65	B
360	Bampa Kurkuti	60	B
361	Khel Kuran Neti	49	B
362	Nayar Dam	34	B
363	Pala Bhila Tipri	400	B
364	Bokang Bailing	145	B
365	Ramganga Dam	75	B
366	Deodi	65	B
367	Rishi Ganga I	115	B
368	Jalem Tamak	150	B
369	Malari Jhelam	90	B
370	Devasari Dam	78	B
371	Khasiyabara	280	B
372	Utyasu dam	1140	B
373	Garba Tawaghat	195	B
374	Gohana Tal	95	B
375	Tawaghat Dharchula	310	B
376	Garjia Dam	295	B
377	Kishau Dam	600	C

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JHARKHAND

378	Upper Sankh-II	186	A
379	Serengda	37	A
380	Subernarekha MPP	30	B
381	Khadwan	450	B
382	Lower Sankh	186	C

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ASSAM

383	Langey	37	A
384	Lower Kopili	150	A
385	Upper Borpani	60	A
386	Amring	33	B
387	Jamuna Dam P/H	28	B
388	Diyung Dam P/H	47	B
389	Dilli Stor.	33	C

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WEST
BENGAL

390	Ramam-III	100	A
391	Balasan	33	A
392	Teesta High Dam	2505	C

2638

UTTAR PRADESH

393	Orchha	39	A

GOA

394	Sonal	55	C

TAMIL
NADU

395	Bhawani Kattalai	90	A

396	Lower Moyar	33	C
397	Nirar	26	C
398	Paraliyar	39	C
399	Pandiarpunnapuzha-I	100	C

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Grand Total 106910

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO.7306 TO BE ANSWERED IN THE LOK SABHA ON 13.05.2005.

Pre-Feasibility Reports under 50,000 MW Hydroelectric Initiative
Statewise List of Schemes

Sl. No.	State / Scheme	Installed Capacity (MW)
	Andhra Pradesh	
1	Pondugala	81
Total (Andhra Pradesh) - 1 Nos. schemes		81
	Arunachal Pradesh	
2	Agoline	375
3	Amulin	420
4	Ashupani	30
5	Attunli	500
6	Badao	120
7	Bhareli-I	1120
8	Bhareli-II	600
9	Chanda	110
10	Demwe	3000
11	Dengser	552
12	Dibbin	100
13	Duimukh	150
14	Elango	150
15	Emini	500
16	Emra-II	390
17	Etabue	165
18	Etalin	4000
19	Hirong	500
20	Hutong	3000
21	Kalai	2600
22	Kameng Dam	600
23	Kapakleyak	160
24	KurungI&II	330
25	Mihumdon	400
26	Mirak	141
27	Naba	1000
28	Nalo	360
29	Naying	1000
30	Niare	800
31	Oju-I	700

32	Oju-II		1000
33	Pakke		110
34	Papu		200
35	Phanchung		60
36	Ringong		150
37	Sebu		80
38	Simang		90
39	Talong		300
40	Tarangwarang		30
41	Tato-II		700
42	Tenga		600
43	Utung		100
Total (Arunachal Pr.) - 42 Nos. schemes		27293	

Chhattisgarh

44	Kotri		150
45	Nugur-I		170
46	Nugur-II		210
47	Rehar-I		171
48	Rehar-II		147
Total (Chhattisgarh) - 5 Nos. schemes		848	

Himachal Pradesh

49	Bajoli Holi		180
50	Bardang		114
51	Chamba		126
52	Chhatru		108
53	Gharopa		114
54	Gondhala		144
55	Jangi Thopan		480
56	Khab-I		450
57	Khab-II		186
58	Khoksar		90
59	Luhri		465
60	Thopan Powari		480
61	Tidong-I		60
62	Tidong-II		70
63	Yangthang		261
Total (Himachal Pr.) - 15 Nos. schemes		3328	

Jammu & Kashmir

64	Barinium		240
65	Bichlari		35
66	Dumkhar		45
67	Kanyunche		45
68	Karkit		30
69	Kawar		320
70	Khalsi		60
71	Kiru		430
72	Ratle		560
73	Shamnot		370
74	Shuas		230
75	Takmaching		30
76	Ujh		280
Total (J & K) - 13 Nos. schemes		2675	

Karnataka

77	Agnashini		600
78	Gangavali		400
79	Gundia		300
80	Kalinadi Stage-III		300

81	Tamankal		300
Total (Karnataka) - 5 Nos. schemes		1900	

Kerala

82	Karappara Kiriarkutty		66
83	Perianjakully		60
Total (Kerala) - 2 Nos. schemes		126	

Madhya Pradesh

84	Basania		90
85	Bauras		55
86	Hoshangabad		60
Total (Madhya Pradesh) - 3 Nos. schemes		205	

Maharashtra

87	Ghargaon		52
88	Hiranyakeshi		18
89	Kadvi		22
90	Kasari		25
91	Kumbhi		17
92	Kunghara		72
93	Pranhita		48
94	Samda		52
95	Wainganga		105
Total (Maharashtra) - 9 Nos. schemes		411	

Manipur

96	Khongnum Chakka st.-II		67
97	Nunglieban		105
98	Pabaram		190
Total (Manipur) - 3 Nos. schemes		362	

Meghalaya

99	Mawblei		140
100	Mawhu		120
101	Mawput		21
102	Nongkolait		120
103	Nongnam		50
104	Rangmaw		65
105	Selim		170
106	Sushen		65
107	Umduna		57
108	Umjaut		69
109	Umngi		54
Total (Meghalaya) - 11 Nos. schemes		931	

Mizoram

110	Boinu		640
111	Lungleng		815

112	Tlawng	45
Total (Mizoram) - 3 Nos. schemes		1500

Nagaland

113	Dikhu	140
114	Tizu	150
115	Yangnyu	40
Total (Nagaland) - 3 Nos. schemes		330

Orissa

116	Baljori	178
117	Lower Kolab	465
118	Naraj	287
119	Tikarpara	259
Total (Orissa) - 4 Nos. schemes		1189

Sikkim

120	Dikchu	105
121	Lachen	210
122	Lingza	120
123	Panan	200
124	Rangyong	141
125	Ringpi	70
126	Rongni Storage	195
127	Rukel	33
128	Talem	75
129	Teesta-I	320
Total (Sikkim) - 10 Nos. schemes		1469

Uttaranchal

130	Arakot Tiuni	72
131	Badrinath	140
132	Bagoli Dam	72
133	Bhaironghati	65
134	Bogudiyar - Sirkari Bhyal	170
135	Bokang Baling	330
136	Chhunger - Chal	240
137	Deodi	60
138	Devsari	300
139	Gangotri	55
140	Garba Tawaghat	630
141	Gohana Tal	60
142	Harsil	210
143	Jadh Ganga	50
144	Jakhol Sankri	33
145	Jelam Tamak	60
146	Kalika Dantu	230
147	Karmoli	140
148	Khartoi Lumti Talli	55
149	Lata Tapovan	310
150	Maleri Jelam	55
151	Mapang - Bogidiyar	200
152	Naitwar-Mori	33
153	Nand Prayag	141
154	Ramganga	66
155	Rishi Ganga - 1	70
156	Rishi Ganga - II	35
157	Rupsiabagar Khasiyabara	260
158	Sela Urthing	230
159	Sirkari Bhyol Rupsiabagar	210
160	Taluka Sankri	140

161	Tamak Lata		280
162	Urthing Sobla		280
Total (Uttaranchal) - 33 Nos. schemes		5282	
Grand Total - 162 Nos. schemes		47930	